

FIG.1

22605641534 * 060500

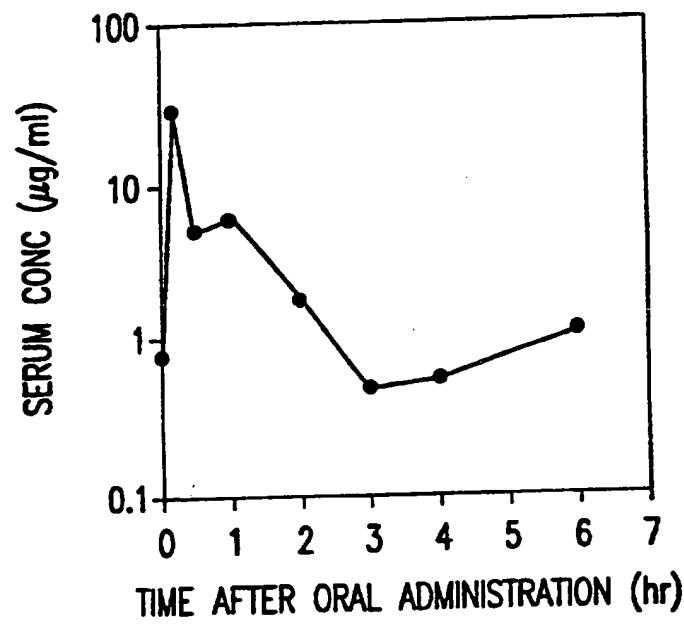
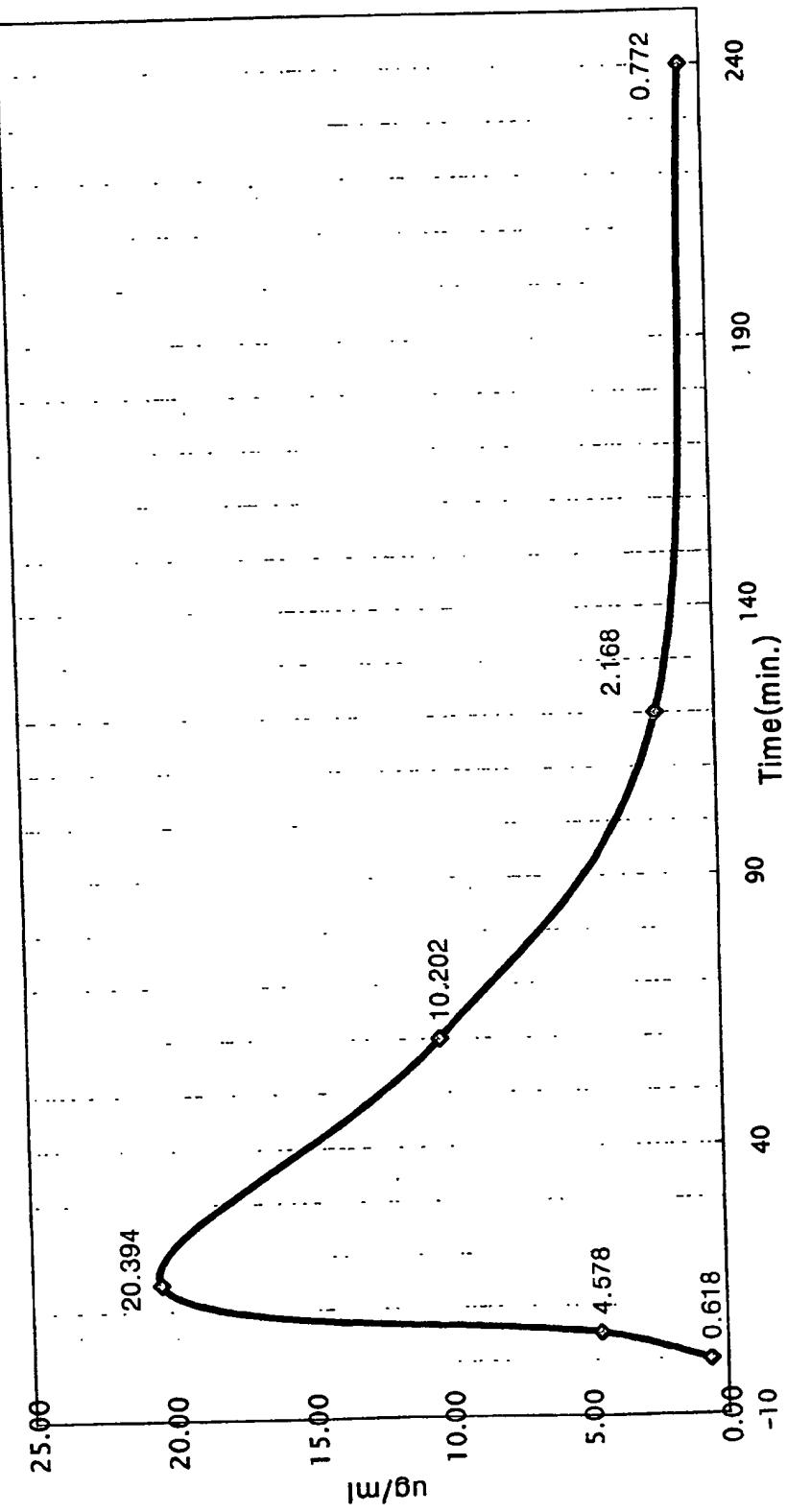


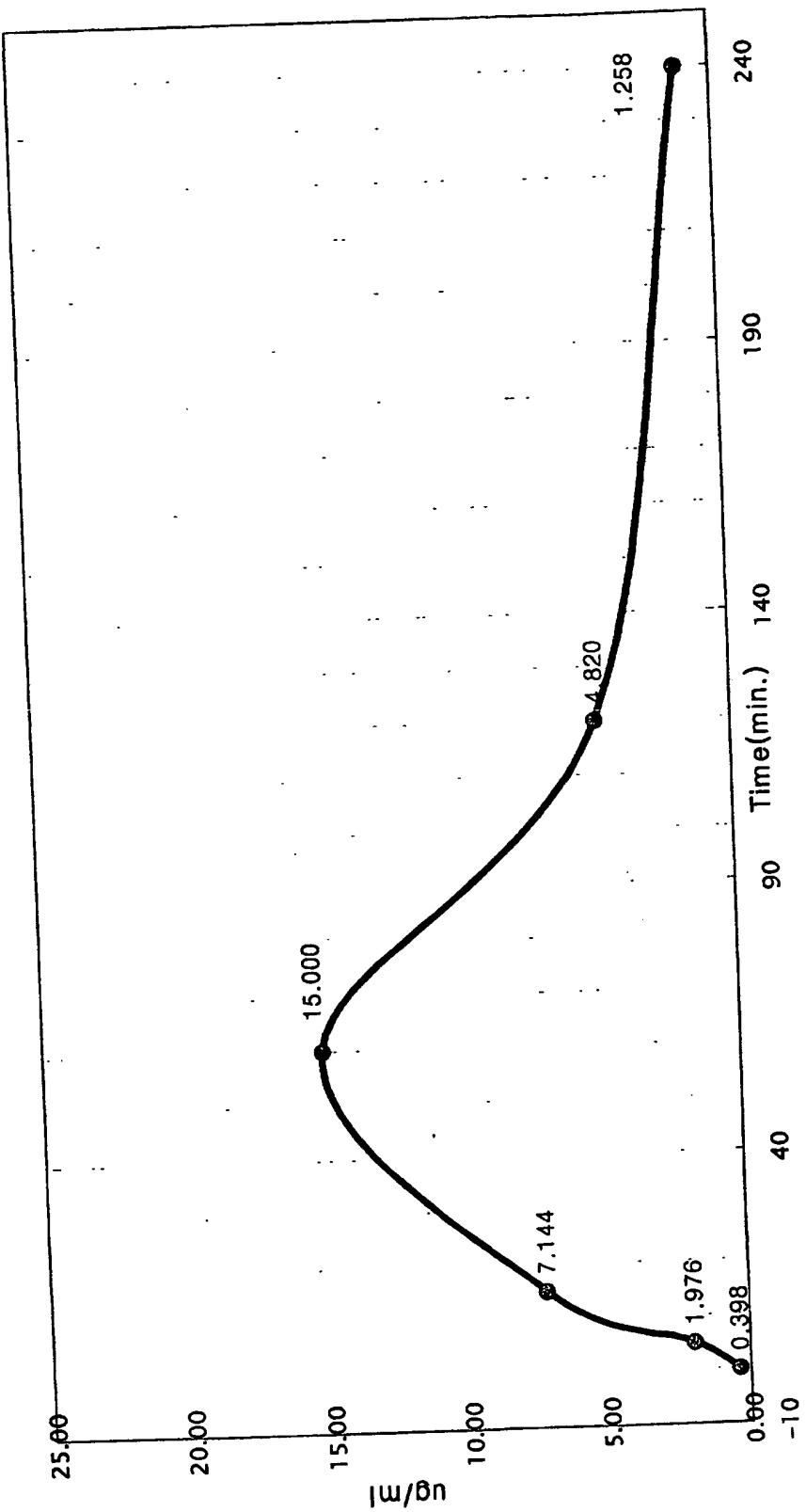
FIG.2

Figure 3
After oral administration of liquid formulation of UDCA
Diagram of the mean ($n=5$) for Group I
Dose 600 mg as solution



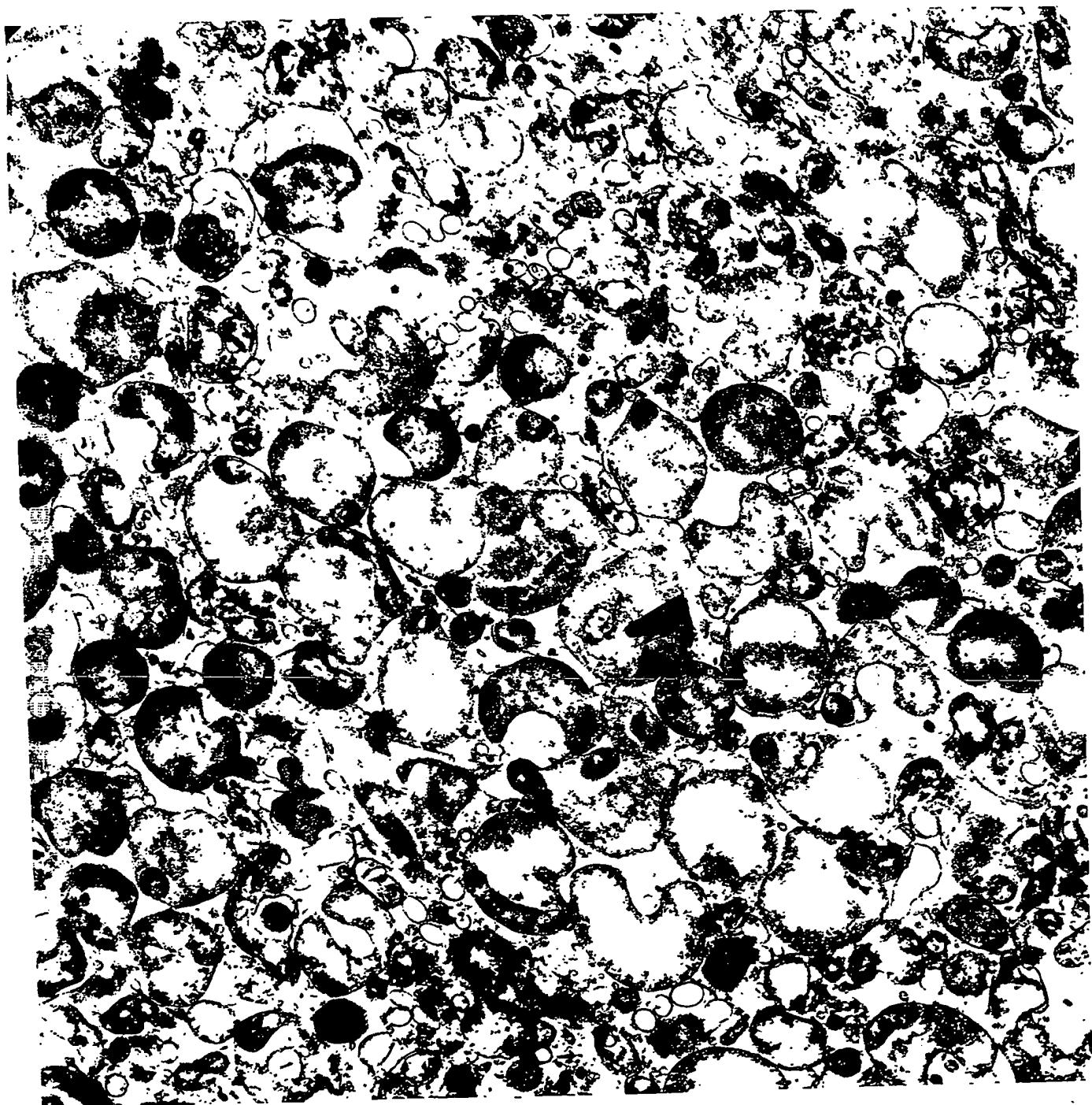
** Each bile acid was detected with standard procedure by LC-1500 Series HPLC System of Jasco equipped with 3α -HSD(3α -hydroxysteroid dehydrogenase) column

Figure. 4
Pharmacokinetic parameters of UDCA in human
After oral administration of liquid formulation of UDCA
Diagram of the mean (n=5) for Group I
Group II Dose 600 mg assyup



* Each bile acid was detected with standard procedure by LC-1500 Series HPLC System
 of JASCO equipped with 3α -HSD(3α - hydroxysteroid dehydrogenase) column

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H. pylori cultured from Columbia medium pictured by
Transmission Electron Microscope

Figure 5A

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48hrs, after *H. pylori* treated with UDCA & bismuth citrate
pictured by Transmission Electron Microscope

Figure 5B

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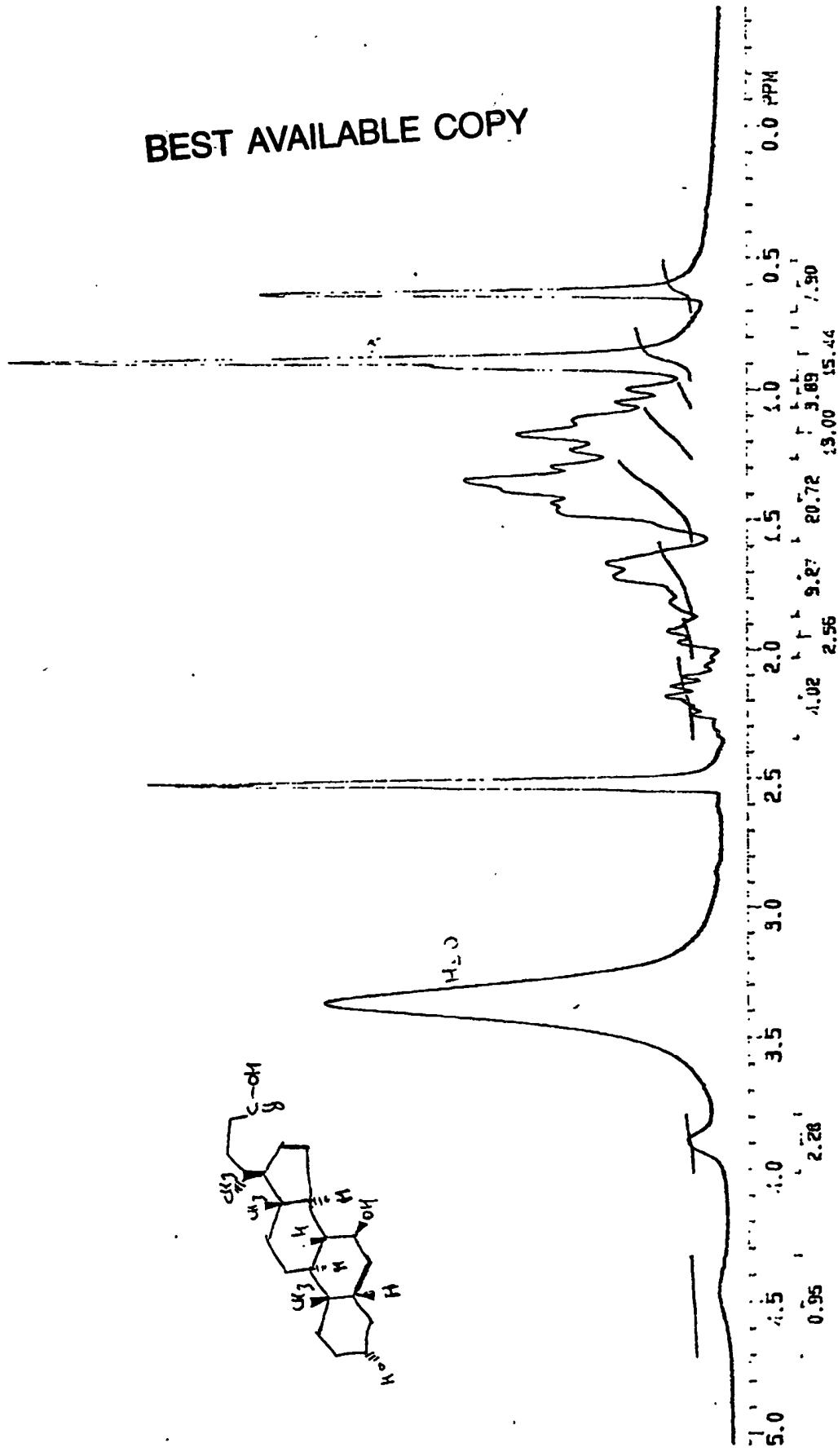
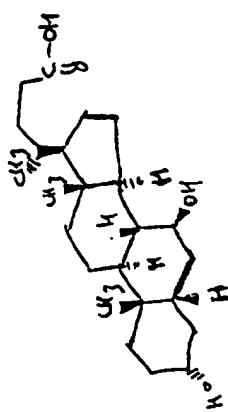
72hrs, after H. pylori treated with UDCA & bismuth citrate
pictured by Transmission Electron Microscope

Figure 5C

YODER LABORATORY

Fig.6: NMR data for UDCA in the liquid formulation dosage form:
this data shows that this UDCA is absolutely free UDCA

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HPLC for UDCA in the liquid formulation dosage form.

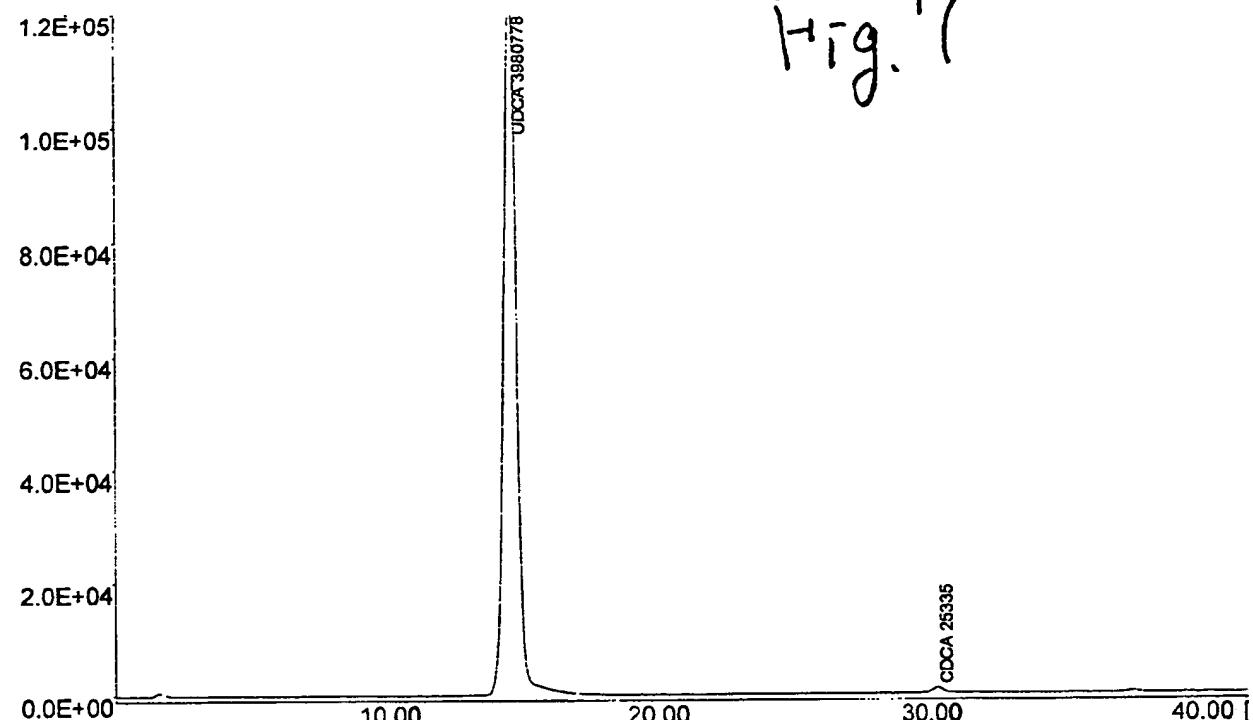


Fig. 7

File name : USG0726001.CH1

Info :
GG25STAR250UD5---DW EXT

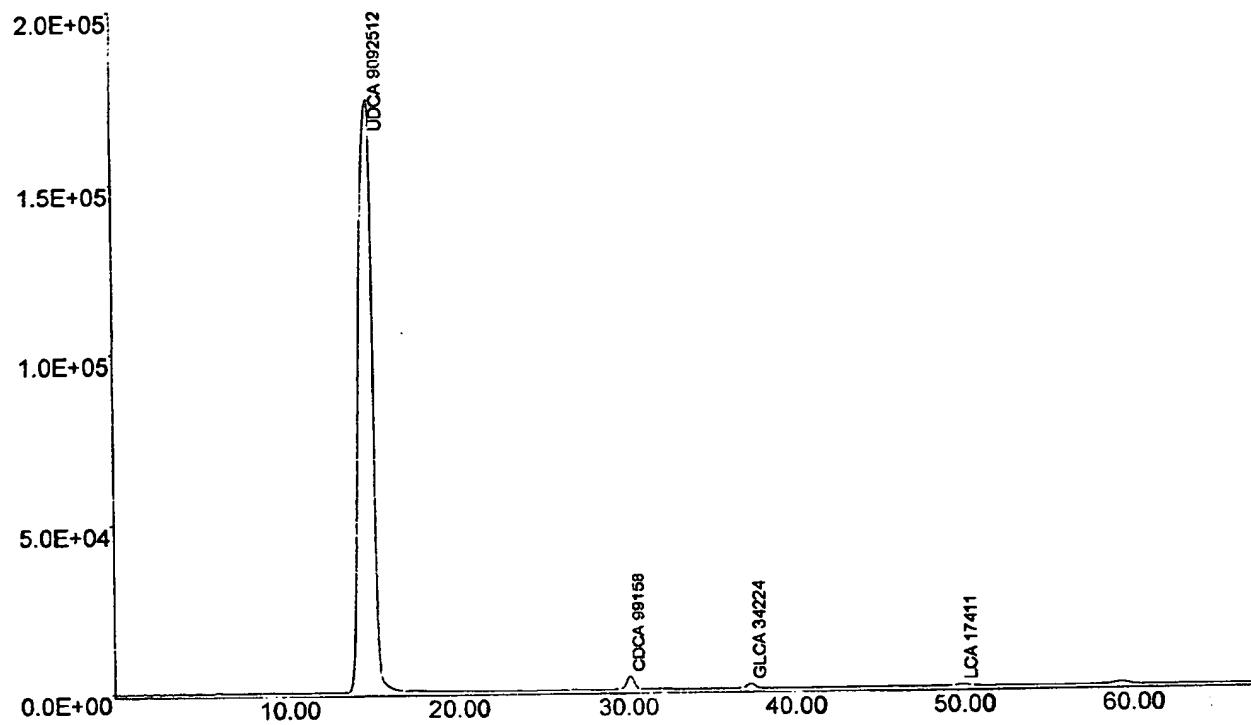
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Injection Date : 26-Jul-2000 16:48:10
Curr. Date : 30-Jan-2001 17:39:30
User : PRIME
Group : DATA
Acquisition Time : 43.85 [min]
Control Method :
Code of system chromatographic : SYSTEM_1

#	Name	RT	Area [.Sec]	%Area
1	UDCA	14.74	3980777.50	99.4
2	CDCA	30.48	35.25	0.6

Total Area of Peak = 4006112.75 [.Sec]
Injection Volume = 10.00 ul

HPLC for standard UDCA

Fig. 8



File name : UDCA724003.CH1

Info :

UDCA 500mg/100ml in MeOH

Vial # = 3 Rack # = 1

Injection Date : 24-Jul-2000 17:20:10

Curr. Date : 30-Jan-2001 17:56:14

User : PRIME

Group : DATA

Acquisition Time : 70.00 [min]

Control Method :

Code of system chromatographic : SYSTEM_1

#	Name	RT	Area [.Sec]	%Area
1	UDCA	15.1679092512.25	98.4	
2	CDCA	30.442	99157.50	1.1
3	GLCA	37.675	34224.00	0.4
4	LCA	50.167	17410.75	0.2

Total Area of Peak = 9243304.50 [.Sec]

Injection Volume = 10.00 ul

◀ Abstracted diagram for the culture method ▶

(i) Method with the various pH values.

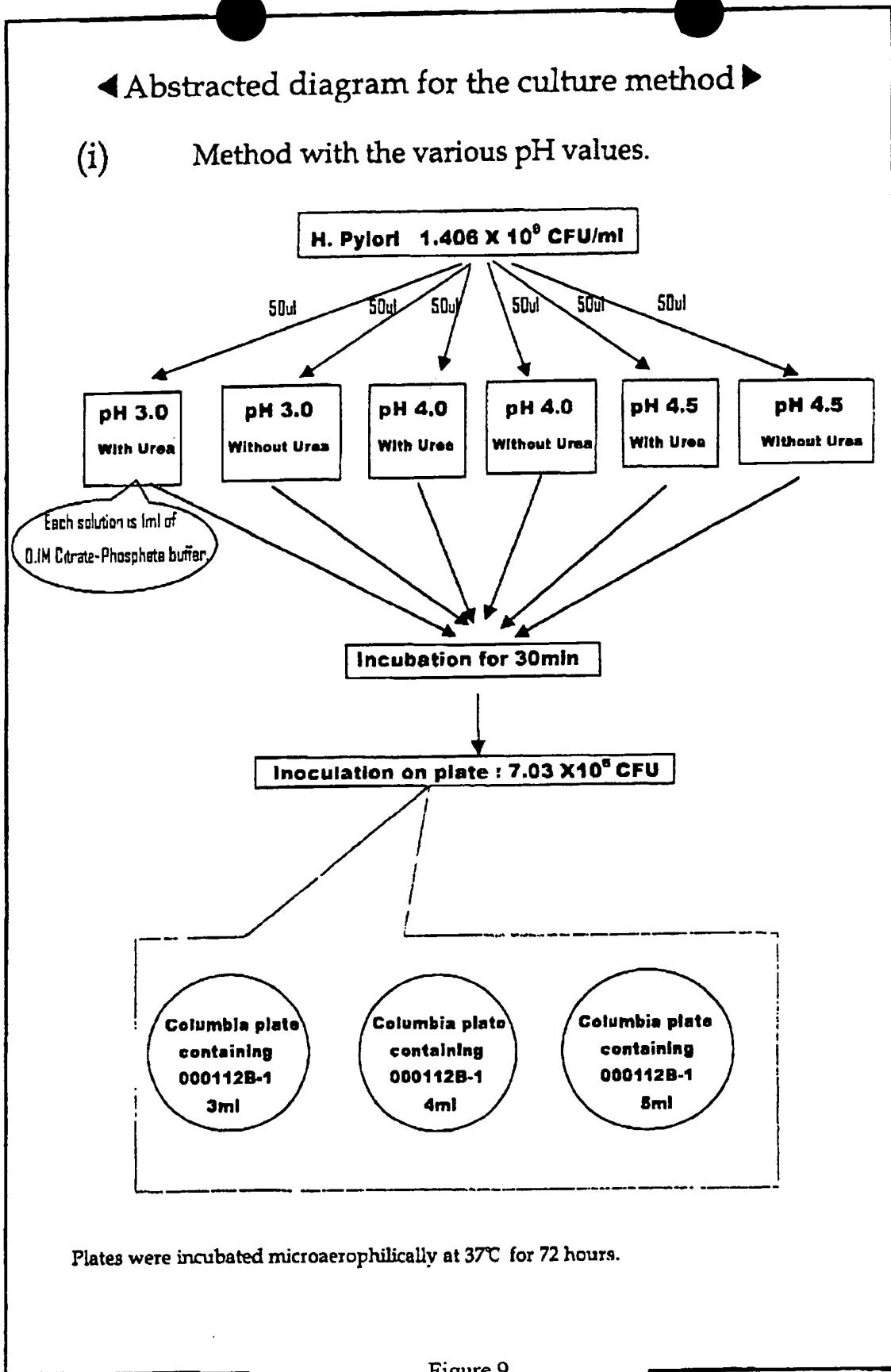


Figure 9

(ii) Method with the various concentrations.

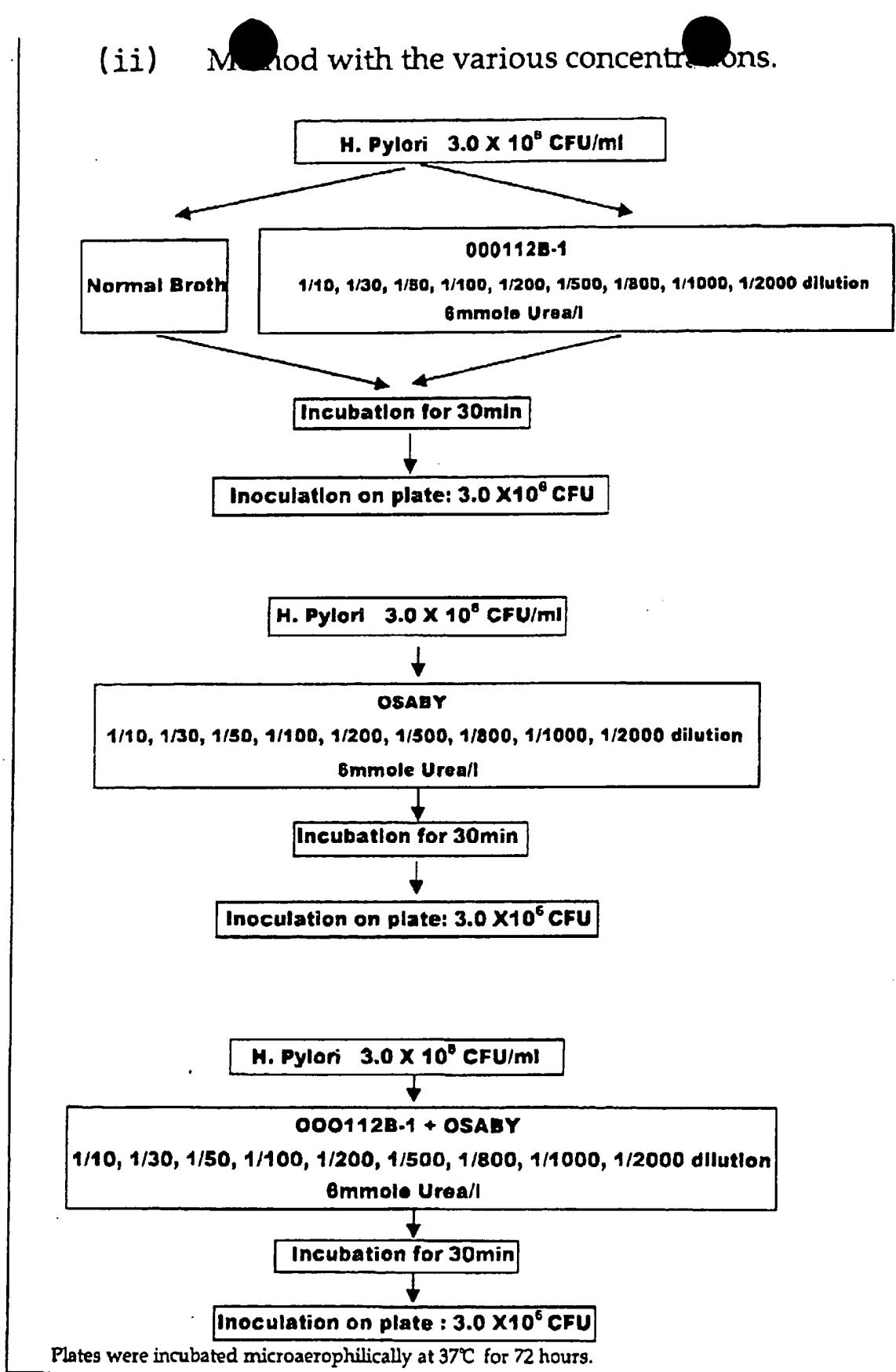
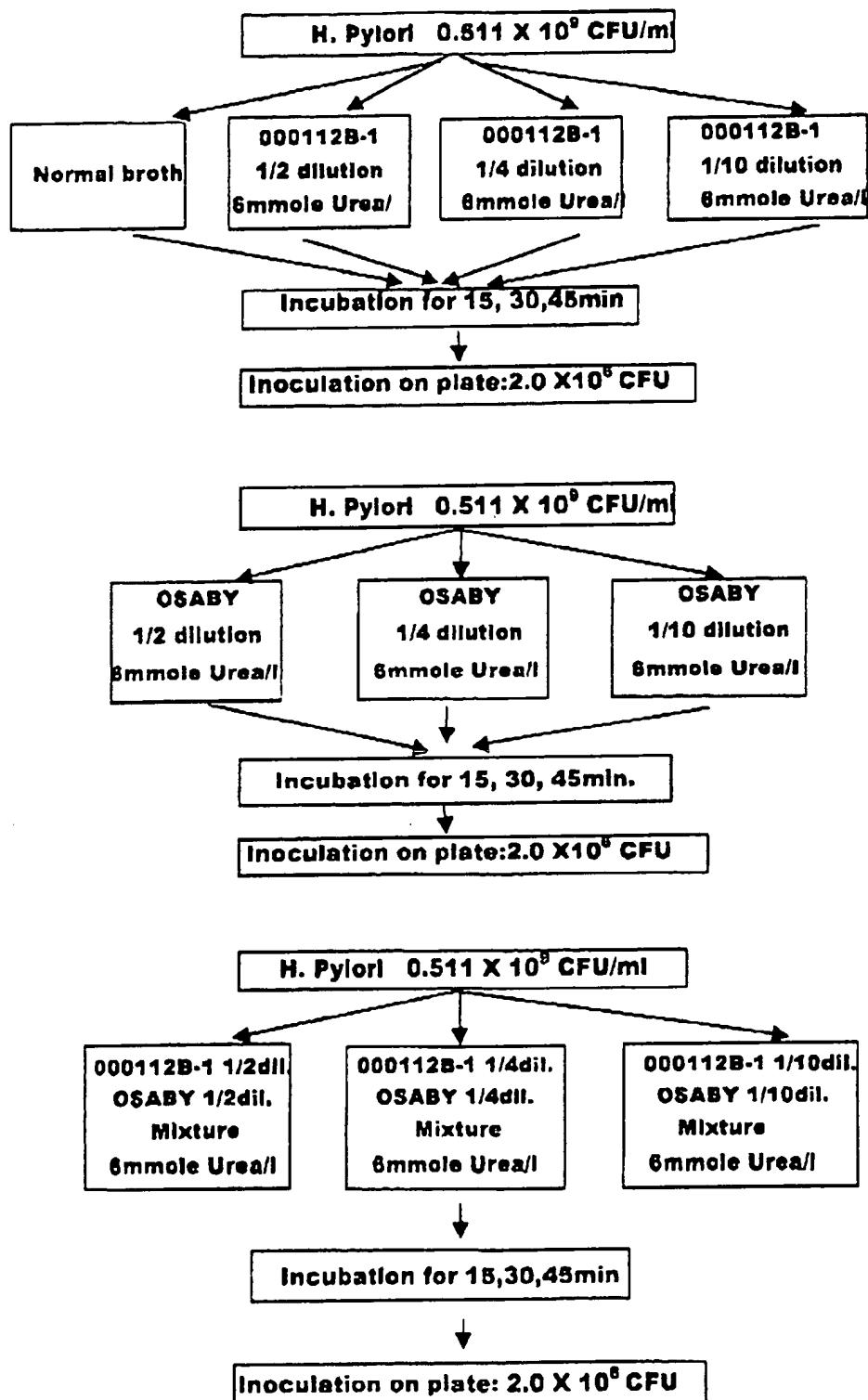


Figure 10

(iii) Method with the various concentrations
+ various incubation time



Plates were incubated microaerophilically at 37°C for 72 hours.

Figure 11